



PHYSICAL vs CHEMICAL PROPERTIES AND CHANGES



~~Keep this in your notebook as a study guide! You will have a quiz on this next week!~~

Background: Keeping the difference between physical and chemical properties as well as changes can be a challenge! This worksheet will help you do this.

<u>Vocabulary Word</u>	<u>Definition</u>
Physical Property	Characteristics of matter that can be seen through direct observation
Physical Change	Change in which the identity of the substance does NOT change
Chemical Property	Characteristics of matter that can only be observed when one substance changes into a different substance
Chemical Change	Transforms one type of matter into another kind, which may have different properties

Part One: Physical or Chemical Property? Fill in the chart using the vocabulary words or phrases provided.

Word Bank

Boiling point	Ability to rust	Melting point	Brittleness	Reactivity to vinegar
Elasticity	Flammability	Density	Transparency	Malleability

Each word is used once. Define the word when done!

<u>Physical Property</u>	<u>Definition</u>
	- the property of letting light pass through a substance.
Boiling point	-
Melting point	-
	- the ability to bend
	- the tendency to crack or break.
Elasticity	-
	- amount of matter in a given amount of space.
<u>Chemical Property</u>	<u>Definition</u>
	- the ability to burn
	- reacts with oxygen to produce rust
Reactivity with vinegar	



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Part Two: Physical or Chemical Change? Indicate with a 'P' or a 'C' which type of change is taking place.

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|----|---------------------------|-----|-----------------------|
| 1. | glass breaking | 10. | mixing salt and water |
| 2. | hammering wood together | 11. | mixing oil and water |
| 3. | a rusting bicycle | 12. | water evaporating |
| 4. | melting butter | 13. | cutting glass |
| 5. | separate sand from gravel | 14. | burning leaves |
| 6. | bleaching your hair | 15. | fireworks exploding |
| 7. | frying an egg | 16. | cutting your hair |
| 8. | squeeze oranges for juice | 17. | crushing a can |
| 9. | melting ice | 18. | boiling water |